

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-081667

(43)Date of publication of application : 26.03.1996

(51)Int.Cl.

C09J131/04
C09J123/08
C09J133/00
// C08K 5/10
C08L 29/04

(21)Application number : 06-219934

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(22)Date of filing : 14.09.1994

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(30)Priority

Priority number : 93 121008 Priority date : 14.09.1993 Priority country : US
94 301470 07.09.1994 US

(54) USE OF LOW-TOXICITY SOLVENT IN WATERBORNE ADHESIVE

(57)Abstract:

PURPOSE: To provide a waterborne adhesive for packaging and processing which is suitable for bonding a waxy substrate (e.g. a paraffin-coated carton) by compounding a specific low-toxicity solvent with an adhesive compsn. mainly comprising a vinyl acetate polymer dispersion.

CONSTITUTION: A waterborne adhesive compsn. contg. 0-20 pts.wt. mixture contg. (A) A water-base dispersion of a vinyl acetate polymer or a pure acrylic polymer in an amt. effective for imparting adhesiveness, pref. 50-90 pts.wt., (B) 0-10 pts.wt. PVA, and a plasticizer, a tackifier, a filler, and a humectant, each in an amt. of 0-20 pts.wt. and (C) 0-25 pts.wt. humectant is compounded with (D) 1-35 pts.wt. org. solvent selected from among 1-5C alkyl butyrates, d-limonene, ethylene glycol monobutyl ether, 5-20C aliph. hydrocarbon petroleum distillates, and normal paraffins, thus giving the objective adhesive. Pref., ingredient A contains 55 wt. % solids. The addition of a surfactant is effective in enhancing the penetration of the adhesive.